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(54) ALTERNATOR FOR VEHICLE

the groove 2 to the overall area S of the opposing face 16 is set lower than 50%.

(57) Abstract:

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PURPOSE: To provide an alternator for vehicle having high generation efficiency and reduced eddy current loss.

CONSTITUTION: An alternator for vehicle comprises a rotor having substantially trapezoidal pole and a stator core 12 comprising a toothed core 10 of laminated iron plates 10 having thickness (t) in the axial direction and applied with a poly-phase winding. Average gap between the rotor and the stator core 12 is set at G. A plurality of grooves 2 are formed, along the laminating direction, in the surface 16 of the toothed core 15 opposing to the rotor. The groove 2 has depth D deeper than the average gap G and groove pitch R not longer than three times of the thickness (t) of iron plate, wherein the ratio(M/S) of the opening area M of

